

### ABSTRACT

Systems and methods for polymer addition control for wastewater treatment. In a water treatment process where flocculating agents are used to promote solids aggregation, intrinsic physical properties of the liquid rich stream following separation  
5 may be continuously measured in order to control or optimize the amount of flocculating or treatment agent that is added to the process. These intrinsic physical properties may include, for example, the viscosity or the density. By continuously measuring an intrinsic physical property of the liquid rich stream, additional tracing compounds may not need to be added to the water treatment system. The treatment process may also  
10 include a holding tank, or a device that separates the entering water into two or more streams, such as a liquid stream and a biosolid stream.

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